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SEQUENCE LISTING

<110> CHOO, YEN
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CHUA, NAM-HAI
SANCHEZ, JUAN PABLO

<120> REGULATED GENE EXPRESSION IN PLANTS

<130> 674538-2001

<140> 09/732,348

<141> 2000-12-07

<150> PCT/GB00/02071

<151> 2000-05-30

<150> GB 9912635.1

<151> 1999-05-28

<150> GB 001578.4

<151> 2000-01-24

<150> GB 0001580.0

<151> 2000-01-24

<160> 33

<170> PatentIn Ver. 2.1

<210> 1

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 1

aaggagatat aacaatg

17

<210> 2

<211> 10

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 2

gtcgaccatg

10

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<210> 3
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 3
 ctctgcagtg tggacctgtg ccatggccgg ctgggccgca tagaatggaa caactaaagc 60

<210> 4
 <211> 995
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 4
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 aacacacagg agagaaacca tttccatgta aggaagaagg atgtgagaaa ggctttacct 180
 cgcttcatca cttaaccgc cactcactca ctcatactgg cgagaaaaac ttcacatgtg 240
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 gattccataa catcaagatc tgcgtctatg tgtgccattt tgagaactgt ggcaaagcat 360
 tcaagaaaca caatcaatta aaggttcatc agttcagtca cacacagcag ctgccgtatg 420
 cttgccctgt cgagtcctgc gatcgccgct tttctcgctc ggatgagctt acccgccata 480
 tccgcatcca cacaggccag aagcccttcc agtgtcgaat ctgcatgcgt aacttcagtc 540
 gtagtgacca ccttaccacc cacatccgca cccacacagg cgagaagcct tttgcctgtg 600
 acatttgtag gaggaagttt gccaggagtg atgaacgcaa gaggcatacc aaaatccatt 660
 taagacagaa ggacgcggcc gcactcgagc ggaattccgg cccaaaaaag aagagaaagg 720
 tcgccccccc gaccgatgtc agcctggggg acgagctcca cttagacggc gaggacgtgg 780
 cgatggcgca tgccgacgag ctagacgatt tcgatctgga catgttgggg gacggggatt 840
 ccccggggcc gggatttacc cccacgact ccgcccccta cggcgctctg gatacggccg 900
 acttcgagtt tgagcagatg tttaccgatg cccttggaat tgacgagtac ggtggggaac 960
 aaaaacttat ttctgaagaa gatctgtaag gatcc 995

<210> 5
 <211> 947
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 5
 tctagagcgc cgccatggga gagaaggcgc tgccggtggt gtataagcgg tacatctgct 60
 ctttcgccga ctgcggcgct gcttataaca agaactggaa actgcaggcg catctgtgca 120
 aacacacagg agagaaacca tttccatgta aggaagaagg atgtgagaaa ggctttacct 180
 cgcttcatca cttaaccgc cactcactca ctcatactgg cgagaaaaac ttcacatgtg 240
 actcggatgg atgtgacttg agatttacta caaaggcaaa catgaagaag cactttaaca 300
 gattccataa catcaagatc tgcgtctatg tgtgccattt tgagaactgt ggcaaagcat 360

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tcaagaaaca caatcaatta aaggttcatc agttcagtca cacacagcag ctgccgtatg 420
cttgccctgt cgagtcctgc gatcgccgct tttctcgctc ggatgagctt acccgccata 480
tccgcatcca cacaggccag aagcccttcc agtgtcgaat ctgcatgcgt aacttcagtc 540
gtagtgacca ccttaccacc cacatccgca cccacacagg cgagaagcct tttgcctgtg 600
acatttgtgg gaggaagttt gccaggagtg atgaacgcaa gaggcatacc aaaatccatt 660
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tcgaacttca gctgacttcg gatgcattag atgactttga cttagatatg ctaggatctg 780
acgcgctaga cgatttcgat ctggacatgt tgggcagcga tgctctagac gatttcgatt 840
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<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic DNA
sequence

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<400> 6
aaggagatat aaca 14

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<210> 7
<211> 29
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic DNA
sequence

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<400> 7
tgctgtgggcg tgtacctgga tgggagacc 29

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<210> 8
<211> 35
<212> DNA
<213> Artificial Sequence

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<220>
<223> Description of Artificial Sequence: Synthetic DNA
sequence

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<400> 8
ccacgcgtcc atgggagaga aggcgctgcc ggtgg 35

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<210> 9
<211> 44
<212> DNA
<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 9

ccactagtcc ttacagatct tcttcagaaa taagtttttg ttcc

44

<210> 10

<211> 148

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 10

cctctagatc ggtctcccat ccaggtagac gccacgcaa gtcggtctcc catccaggta 60
cacgcccacg caagtcgggc tcccatccag gtacacgccc acgcaagtcg gtctcccatc 120
caggtagacg cccacgcaag aagcttcc 148

<210> 11

<211> 148

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 11

ggaagcttct tgcgtgggcg tgtacctgga tgggagaccg acttgcgtag gcgtgtacct 60
ggatgggaga ccgacttgcg tgggcgtgta cctggatggg agaccgactt gcgtgggcgt 120
gtacctggat gggagaccga tctagagg 148

<210> 12

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 12

ccagatctgg tctcccatcc aggtacacgc ccacgcaaga tctcc

45

<210> 13

<211> 46

<212> DNA

<213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 13
 ggagatcttg cgtgggcgtg tacctggatg ggagaccaga tctcgg 46

<210> 14
 <211> 34
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 14
 ccccatggtg agcaagggcg aggagctggt cacc 34

<210> 15
 <211> 35
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 15
 ccgaattctt acttgtagag ctggtccatg ccgag 35

<210> 16
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 16
 ccctcgagcg gggtaccgag ggcccggg 28

<210> 17
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 17
 cagttggaat tctagagtcg cggccgctac 30

<210> 18
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 18
 ccgctcgagg cccccccgac cgatgtcagc ctggggga 38

<210> 19
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 19
 ccgctcgagt attaatTTga gaatgaacaa aaaggacc 38

<210> 20
 <211> 38
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 20
 gccattaatc ggaatgggag agaaggcgct gccggtgg 38

<210> 21
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic DNA
 sequence

<400> 21
 gcctattaat ttgagaatga acaaaaagga cc 32

<210> 22
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic zinc finger
 formula structure

<220>
 <221> MOD_RES
 <222> (1)
 <223> Any amino acid

<220>
 <221> MOD_RES
 <222> (3)..(6)
 <223> Any amino acid and this region may encompass 2-4
 amino acids

<220>
 <221> MOD_RES
 <222> (8)..(10)
 <223> Any amino acid and this region may encompass 2-3
 amino acids

<220>
 <221> MOD_RES
 <222> (12)..(16)
 <223> Any amino acid

<220>
 <221> MOD_RES
 <222> (18)..(19)
 <223> Any amino acid

<220>
 <221> MOD_RES
 <222> (21)..(23)
 <223> Any amino acid

<400> 22
 Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa
 1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His
 20

<210> 23
 <211> 4
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 linker sequence

<400> 23
 Thr Gly Glu Lys
 1

<210> 24
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 linker sequence

<400> 24
 Thr Gly Glu Lys Pro
 1 5

<210> 25
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Consensus
 structure sequence

<400> 25
 Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp
 1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly
 20 25

<210> 26
 <211> 29
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Consensus
 structure sequence

<400> 26
 Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn
 1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro
 20 25

<210> 27
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Illustrative
 leader peptide

<400> 27

Met Ala Glu Glu Lys Pro
1 5

<210> 28

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic zinc
finger 4 amino acid sequence, including the
flanking sequence as used in the composite protein
of the invention

<400> 28

Asn Ile Lys Ile Cys Val Tyr Val Cys His Phe Glu Asn Cys Gly Lys
1 5 10 15

Ala Phe Lys Lys His Asn Gln Leu Lys Val His Gln Phe Ser His Thr
20 25 30

Gln Gln Leu Pro
35

<210> 29

<211> 108

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence of zinc finger 4, including
the flanking sequence

<400> 29

aacatcaaga tctgcgctcta tgtgtgccat ttgagaact gtggcaaagc attcaagaaa 60
cacaatcaat taaaggttca tcagttcagt cacacacagc agctgccg 108

<210> 30

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
construct sequence

<400> 30

ggtctcccat caggtacacg cccacgca

28

<210> 31

<211> 28

<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
construct sequence

<400> 31
ggctctcccat caggtacacg cgcacgca

28

<210> 32
<211> 11
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 32
ggatggggaga c

11

<210> 33
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic DNA
sequence

<400> 33
gcgtggggcgt

10